

ABSTRACT OF THE DISCLOSURE

A retainer for holding a rotationally symmetrical optical element, includes a retaining member that holds
5 the optical element via three support parts arranged at approximately 120° intervals, and a joint member that joints the optical element with the retaining member, wherein $| (z_b - 0.6w_b) - (z_g + 1.2) | \leq 1$ is met, where z_g is a coordinate of a gravity center of the optical
10 element, z_b is a coordinate of a center position of a width of said joint member in the z axis direction by which said joint member contacts the optical element, and w_b is the width of said joint member in the z axis direction by which said joint member contacts the
15 optical element.